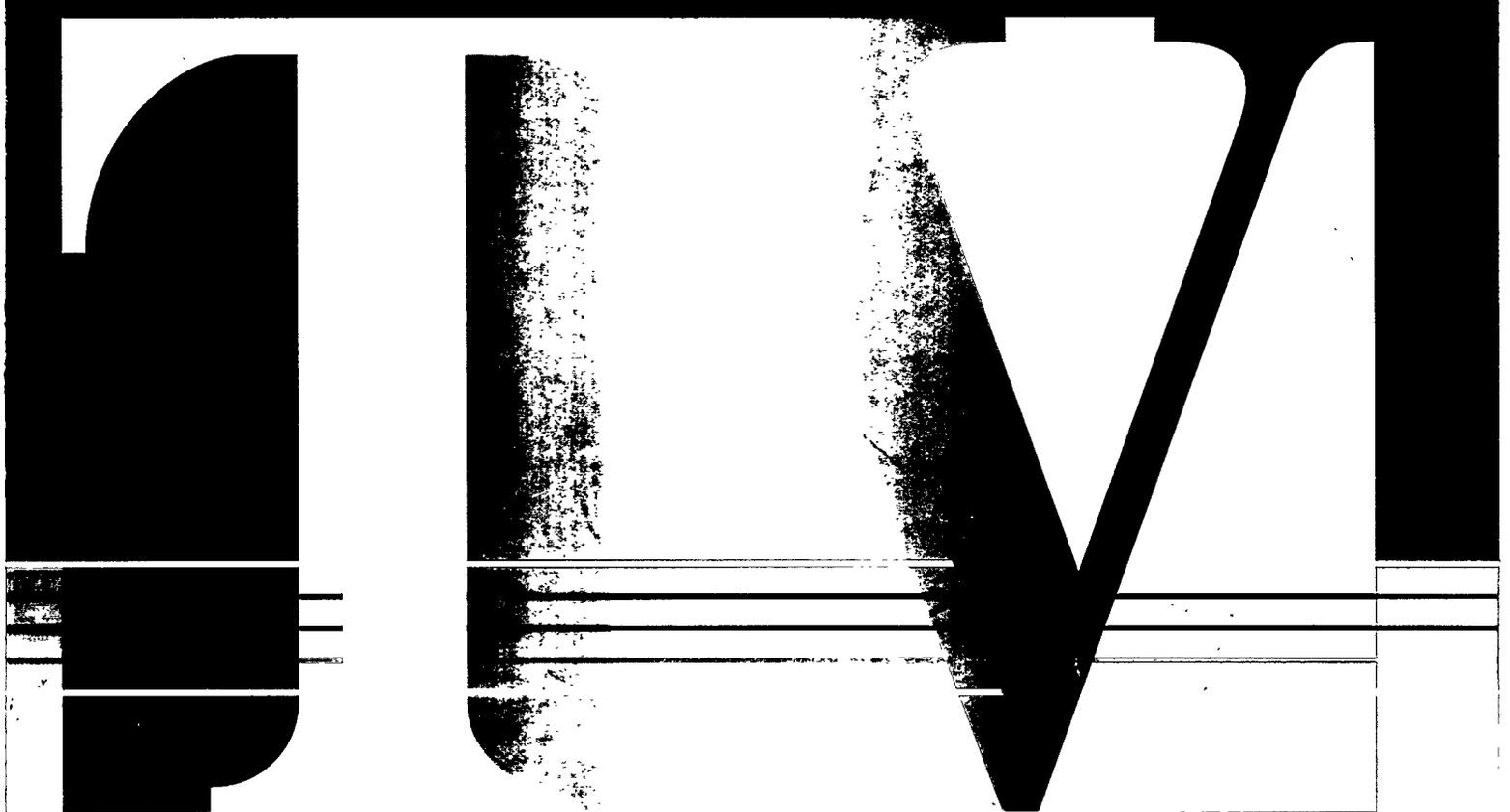
PHILIPS



MATCH LINE

46 PP 910 A

PHILIPS

PHILIPS

Pick location	Item	Invoicenumber	Wave	Sort location
4BO-A19-D3	0773	5530543-0005	03	06-011

Cust.code	Quantity
	1

	Stock	Invoice and ship to	Order	Date
1958	32	381403 170866	970304	102

Qty. SPQ	Service code	Description	SPQ
1	4822 736 53558	MODE D'EMPLOI	1

46PP910A

Made in:

MW Mulier-Langendoen

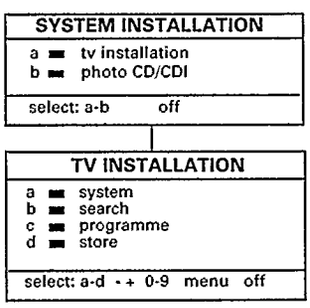
About this Handbook

This is a handbook to help you with the installation and operation of your new menu TV.
With a menu TV, menus can be called up on the screen. These menus provide information either about operations to be carried out or about functions you can select.

This handbook consists of two parts :

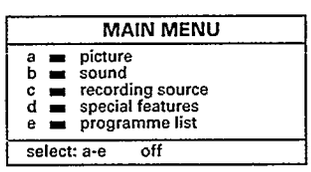
Installation

This part helps you with installing your TV, and locating and storing your TV channels. To do this, follow the directions of the SYSTEM INSTALLATION menu very closely and step by step.
The installation menu is shown as it will appear on your screen.



Operation

After you have stored the TV channels, you can call them up on the screen. You can adjust the picture and sound via the main menu. The MAIN MENU is shown here as it will appear on your screen. Feel free to try out all the different possibilities of your TV. Use this part of the handbook to help you in doing this.



- ○ This circle in front of a sentence indicates that you have to **do** something.
- ▷ This arrow in front of a sentence indicates the **result** of what you have done.

In the stripe under each menu you are told which keys you can press and how you can switch the menu off again.

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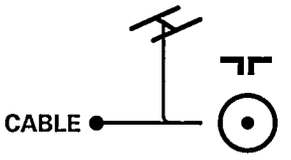
Preparation

This TV is quite heavy.
Place the TV on a solid surface.
For ventilation, leave a space of at least 5 cm free all around the set.
To improve the sound quality, leave a space of about 30 cm between the wall and the back side of the set.

This TV requires a mains voltage of 220 V - 240 V.

Insert the aerial plug tightly into the aerial socket ⊓ at the back of the TV with an aerial cable of good quality.

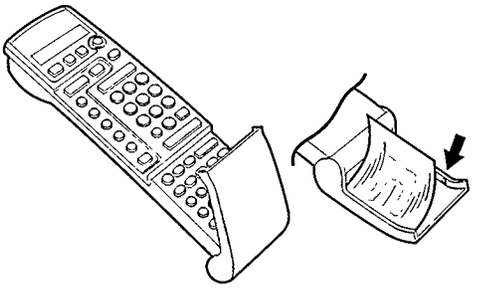
You can improve the picture quality by using the suppressor-aerial-cable supplied.

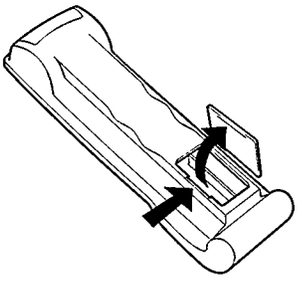


Insert the mains plug in the wall socket.

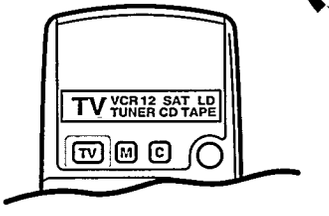
Remote control

This remote control has been developed to operate your TV.
However some main functions of your audio and video equipment from our product programme are controllable as well.





Rip off the label, written in your language from the label sheet, supplied with these instructions, click it onto the inside surface of the door of the remote control.
Remove the cover of the battery compartment on the back of the remote control.
Insert the 2 batteries supplied (type R03-1,5V).
Click the cover back into place.



- o Press the **TV** key below the display.
- ▷ In the window of the remote control the letters **TV** appear in a grey block.
- o Press **C**.

You can now operate your TV with your remote control.

Go on to **2.**

2 Switching TV on

- Press the switch ⏻ on the front of your TV set.
- A green or red lamp lights up on the front of your TV set.

green ⏻ ..... **or** **red** ⏻ .....

- The TV is switched on.
  The screen lights up after about 25 seconds.

  Go on to **3.**

The TV is switched on but the screen stays dark. Your TV is on standby.

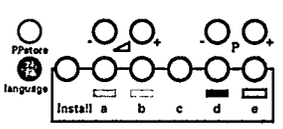
- Press the **TV** key on the remote control.
- Press **C.**
- The green lamp lights up and blinks every time you press a key on the remote control.
- The TV switches on.
  The screen lights up after about 25 seconds.

  Go on to **3.**

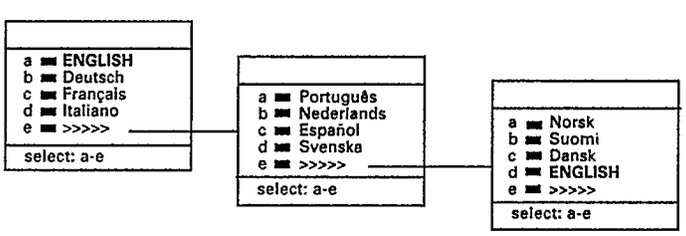
3 Selecting your menu language

You can choose **for yourself** the language of the menus - the instructions and the various possible choices - which you call up on your screen.

- Pull to open the control panel cover on the front of your TV.



- Press **language.**
  If the message CHILD LOCK ON appears, the child lock should be switched off.
  See Special Features, p. 14.
- The language menu appears on the screen.



- Press the colour key of your language choice.
- Press the corresponding colour key for >>>>> if the language you want does not appear on the first language menu.

- LANGUAGE STORED appears for a moment at the top of the menu.
  The language menu disappears.
  From this point on, all menus are presented in the language of your choice.

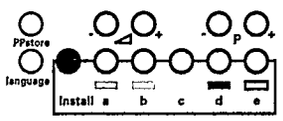
  Go on to **4.**

Have you pressed the wrong key ?
Press **language** *again and make a new choice.*

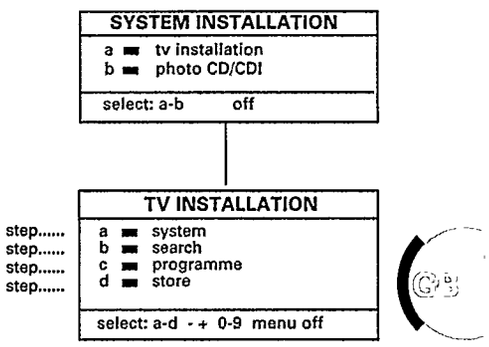
4 Searching for and storing TV channels

After you have switched on your TV and selected your menu language, you can search for and store your TV channels.
Within the installation menu you yourself assign each of these TV channels a number and a name of your own choice, which are then used to call the channels up for viewing.

- Pull to open the control panel cover on the front of the TV.



- Press **Install** on the TV control panel.
- ▷ The **SYSTEM INSTALLATION** menu appears.
  If the message **CHILD LOCK ON** appears, the child lock should be switched off.
  See Special Features, p. 14.
- Press the red key a.
- ▷ The **TV INSTALLATION** menu appears.



Is the menu that appears not in your chosen language ?
Press **off** *and go back to* **3.** *Select your menu language.*

Now follow very closely and **step by step** the instructions of the **TV INSTALLATION** menu. You must go through every step.
Do this for every TV channel.

step a Selecting the TV system

The television picture is not broadcast in the same way in all countries. We speak of different television systems (PAL, SECAM, NTSC,.....).
Now you must select the TV system **yourself.**

- ○ Press the red key a.

- ▷ The SYSTEM menu appears..... **or** ONLY ONE SYSTEM AVAILABLE appears.....

1 You have your own aerial.
- ○ Press the colour key of the country or part of the word from where you want to select the TV channel.
- ▷ Your selection lights up.
- ○ Press MENU.
- ▷ The TV INSTALLATION menu now appears.

2 You are connected to the cable system.
- ○ Press the colour key of the country or part of the world where you now are located.
- ▷ Your selection lights up.
- ○ Press MENU.
- ▷ The TV INSTALLATION menu now appears.

Go on to step **b.**

If you have pressed the wrong key, then repeat step a.

You have a set that can receive only one system.
You do not need to make any selection.

Go on to step **b.**

step b Searching for a TV channel

This can be done in two different ways :
Either automatic searching or else entering a frequency yourself.

Automatic searching..... or

The TV itself searches for the channel.

- o Press the green key b.
- ▷ SEARCHING appears and the TV is searching for a channel.
- ▷ The frequency increases until a channel is found.

Go on to step **c** if you want to store the channel that has been found.

- o Press ⊡ under the door of the remote control to recognise which programme is being broadcast.
- ▷ The TV INSTALLATION menu disappears temporarily

Do you want a different channel or is the reception poor ?

- o Then press the green key b again.

Is the reception still poor ? See Tips, p. 30.

If no TV channel is found, interrupt the automatic searching by pressing any digit key. Check if you have selected the correct TV system or if the aerial is connected properly.

Entering a frequency yourself.....

A TV channel is transmitted at a certain frequency.
If you know the frequency, you can enter it directly and in this way call up the TV channel. Ask for a list of the frequencies at your cable company or at a dealer.

- o First enter the **5** digits of the desired frequency.
- o For frequencies under 100 Mhz, first enter a **0**.
  For example : 063.25

Have you entered a wrong number ?
First complete the frequency with arbitrary numbers and then start again.

Fine-tuning

You may be able to improve the reception of picture and sound of a TV channel. Adjust the frequency yourself with the MENU - or + key on the remote control.

Go on to step **c**.

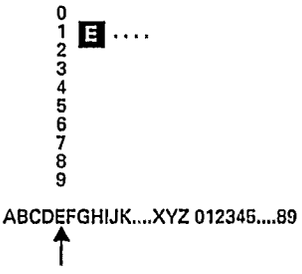
step c Entering the programme number and name

Now you **yourself** must assign a number of your choice and a name to the TV channel located. In this way you decide for yourself the order of all your TV channels.

With the assigned programme number you can call up your TV channel again later.
A name of maximum 5 letters or numbers can be given to the programme numbers 0 to 29. For example : SUPER, BBC1, ...
Thus you see immediately which TV channel you have stored under which programme number.

- Press the yellow key c.
- ▷ PROGRAMME appears.
- Hold down the **P** - or + key on the remote control until the desired programme number appears in the menu.

In this list you can now enter the name of the TV channel.
With the arrow under the letter and number line you select which letter or which number in the list above you wish to enter.
In the list there is a white block next to the chosen programme number.



- Hold, as desired, either the green key b down to move the arrow to the left, or else the yellow key c to move the arrow to the right.
- ▷ The letter or number that you indicate with the arrow appears in the block.
- Press the blue key d.
- ▷ The block moves over one space.
  Now you can choose a following letter or number with the arrow.
- Place the arrow between **z** and **0** for a space.

Did you fill in a wrong letter or number ?
Press repeatedly on the blue key d until the block is back in the place where you want to make a change.
Now choose with the arrow the correct letter or the correct number.

Is the complete name filled in ?

- Then press MENU.
- ▷ The TV INSTALLATION menu appears again.

Go on to step **d**.

step d Storing steps a to c

Now, the TV system, the located TV channel, its programme number and name must be stored in the memory.

- o Press the blue key d.
- ▷ PROGRAMME STORED appears briefly at the top of the menu.
- ▷ The TV channel is stored in the memory.

repeat

Do you want to store another TV channel ?

- o Then repeat steps **a-b-c-d.**

Are you connected to the cable system ?

- o Then begin immediately with step **b.** You have already selected the TV-system in step **a** for all channels.

out

Have you finished locating TV channels and do you want to exit the TV INSTALLATION menu ?

- o Press MENU.
- ▷ The SYSTEM INSTALLATION menu appears.

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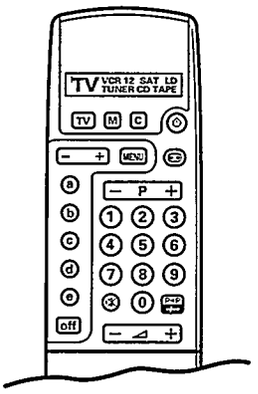
5 Photo CD/CDI

In case you have connected a photo Compact Disc or a Compact Disc Interactive, see Peripheral Equipment p. 24.

- o Press the green key b in the SYSTEM INSTALLATION menu.
- ▷ PHOTO CD/CDI lights up.
- o Press MENU + to select YES.
- ▷ This offers you an optimum picture quality for your Photo CD or CDI.
- o Press **off** to exit the SYSTEM INSTALLATION menu.

Operation



The letters **TV** in the display of the remote control must be in a grey block if you want to operate your TV.
If this is not the case, first press the **TV** key under the display and then press **C.**

Every time you press a key on the remote control, the green lamp ⏻ on the front of your TV set blinks.

Every 20 minutes you will notice a horizontal shift of the picture. This will prolong the life of your screen.

Switching TV on

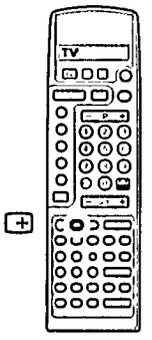
- Press ⏻ on the front of your TV.
- ▷ A green lamp ⏻ lights up. PR1 appears briefly and possibly also the programme name.

- ▷ Does a red lamp ⏻ light up ?
  Your TV is on standby. Read on.

Standby

- With the standby key ⏻ at the top of the remote control you can temporarily switch the TV off.
- ▷ The lamp ⏻ on the TV lights up.
- Press the **C**-key below the display in order to turn the TV on again.
  If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby.
  To save energy switch off your TV overnight instead of leaving it on standby.

Selecting TV channels



- Select the TV channel with the digit key on the remote control.
- For a two-digit programme number, enter the second digit within 2 seconds.
- If you want to know which channel you are watching, open the door of the remote control and press ⊡.
- ▷ The programme number remains on the screen until you press ⊡ again.

Quickly run through the TV channels.

- Hold the **P** - or + key pressed down.

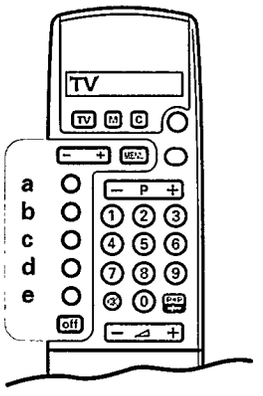
Volume control

- Press ◿ - or +.

Temporarily interrupting the sound

- Press 🔇.
- ▷ The sound is temporarily interrupted.
- ▷ The lamp 🔇 on the front of the TV lights up.
- Press 🔇 again to get the sound back.

Main Menu



You use the keys in the grey area of the drawing to operate the main menu.

With the colour keys a-b-c-d-e you select your choice in the menus.

In the main menu you can :
. adjust **picture** and **sound** according to personal preference
. select **recording sources** for your video recorder
. select from among various **special features**
. call up a **programme list** with an overview of the TV channels stored.

- o Press MENU.
- ▷ The MAIN MENU appears.
- o Press **off** to switch off each menu.

MAIN MENU
a ▬ picture b ▬ sound c ▬ recording source d ▬ special features e ▬ programme list
select: a-e off

Adjusting the picture

- o Press MENU.
- o Press the corresponding colour key for PICTURE.
- ▷ The PICTURE 1 menu appears
- o Press one of the colour keys to select the adjustment you want to regulate.
  When you have a set that can receive the NTSC system and when USA is selected in Selecting the TV system, see p. 6, also the option **tint** appears in the PICTURE 2 menu.
- ▷ The selected adjustment lights up.
- o Press MENU - or + in order to regulate the selected adjustment.
- o Press a colour key once more in order to select another adjustment.

PICTURE 1
a ▬ brightness b ▬ colour c ▬ contrast d ▬ sharpness e ▬ picture 2
select: a-e menu off

PICTURE 2
a ▬ colour purity b ▬ digital scan c ▬ picture 1
select: a-c menu off

Colour purity
Loss of picture quality may be due to affection of the colour purity. This can be checked, and if necessary, corrected.
- o Press the corresponding colour key for COLOUR PURITY.
- ▷ The COLOUR PURITY menu appears.
- o Press one of the colour keys a to d.
- ▷ A red or blue line appears together with a green line.
- o Press MENU - or + in order to make the red of blue line coincidental with the green line.

COLOUR PURITY
a ▬ move red on green vert. b ▬ move red on green hor. c ▬ move blue on green vert. d ▬ move blue on green hor.
select: a-d - + menu off

Digital scan (Line Flicker Reduction)
In certain circumstances watching TV programmes can be more attractive if you switch off the digital scan line flicker reduction.
- o Press the corresponding colour key for DIGITAL SCAN.
- o Press MENU - in order to switch off the line flicker reduction.

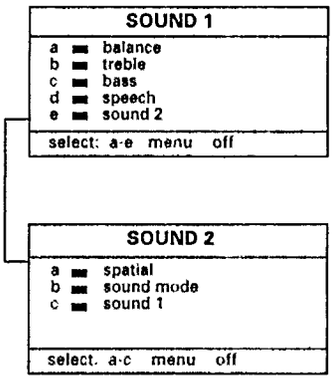
Do you want to store the changed adjustment in the memory ?
- o Press **PP store** on the control panel of the TV.
  The child lock should be switched off. See Special Features, p. 14.
- ▷ PERSONAL PREFERENCE STORED appears briefly on the screen.
  At this point, all previous adjustments are cancelled.

- o Press MENU.
- ▷ The MAIN MENU appears again.

Adjusting the sound

- Press MENU.
- Press the corresponding colour key for SOUND.

▷ The SOUND 1 menu appears.



Balance, treble, bass

- Press one of the colour keys to select the adjustment you want to regulate.

▷ The selected adjustment lights up.

- Press MENU - or + in order to regulate the selected adjustment.
- Press a colour key again to select another adjustment.

Do you want to store the modified adjustment in the memory ?

- Press **PP store** on the control panel of the TV.
  The child lock should be switched off. See Special Features, p. 14.

▷ PERSONAL PREFERENCE STORED appears briefly on the screen.
At this point, all previous adjustments are cancelled.

Speech

- Press the corresponding colour key for SPEECH.

▷ SPEECH lights up.

- Press MENU + to reveal the treble and to suppress the bass.
- Press MENU - to switch off.

Spatial and surround sound

- Press the white key e in the SOUND 1 menu.

▷ The SOUND 2 menu appears.

- Press the corresponding colour key for SPATIAL in the SOUND 2 menu.

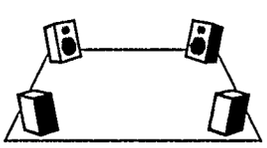
▷ SPATIAL lights up.

- Press MENU - or + to switch off or on.

▷ When SPATIAL ON is selected, it seems as though the loudspeakers are spread further apart from one another. You get a spatial sound effect.

▷ The lamp ⊂⊃ on the TV lights up.

You achieve a Surround Sound effect if you have 2 or for a maximum effect 4 extra loudspeakers connected. See Peripherals, p. 25.
In case of 2 extra loudspeakers, always connect them to REAR at the back of your TV.
In case of 4 extra loudspeakers,connect them to FRONT and REAR.



- Press the loudspeaker switch on the back of the TV out.

▷ The internal loudspeakers of your TV are now switched off.

- Place the loudspeakers in the corners of a imaginary square.

Mono broadcasting activates the two loudspeakers of your TV set or the two loudspeakers connected to FRONT.

- Select SPATIAL ON.

▷ The lamp ⊂⊃ on the front of the TV lights up.

▷ You get a pseudo stereo effect.

Stereo broadcasting activates the two loudspeakers of your TV or the two loudspeakers connected to FRONT and the two loudspeakers connected to REAR.

▷ The lamp ∞ lights up.

- Select SPATIAL ON.

▷ The lamps ∞ and ⊂⊃ light up.
You get a spatial stereo effect.

Sound mode

- o Press the corresponding colour key for SOUND MODE in the SOUND 2 menu.
- ▷ SOUND MODE lights up.
- ▷ If the TV channel which you are now watching transmits stereo or digital sound and if your set is equipped with Nicam you can choose between :
  . **stereo** or **mono** if the TV channel transmits *stereo* sound
  . **digital** or **analogue** if the TV channel transmits *digital* sound.
- o Select **analogue** or **mono** in case of weak digital or stereo sound signals.
- o Press MENU - or +.
- ▷ The lamp ∞ on the front of the TV lights up when stereo or digital sound is selected and transmitted.
  If you do not make a sound choice for the TV channel you are watching, your TV will choose between stereo or digital sound, depending on the sound the TV channel transmits.

- o Press MENU.
- ▷ The MAIN MENU appears again.

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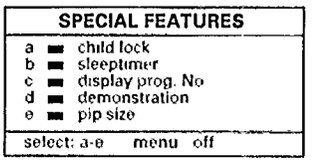
Recording Source

If you want to record a programme, then first read Peripherals, Recording, p. 29.

Special Features

- Press MENU.
- Press the corresponding colour key for SPECIAL FEATURES.
- ▷ The SPECIAL FEATURES 1 menu appears.



- Press a colour key in order to choose between child lock, sleeptimer, display programme number, demonstration or pip size.
- ▷ Your choice lights up.
- Press once more on a colour key to make another choice.

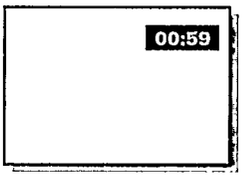
Child lock

If the child lock is on, the TV can only be switched on with the digit keys on the remote control. The keys on the TV cannot be used.

- Press the corresponding colour key for CHILD LOCK.
- Press MENU - or + to switch the child lock off or on.

Sleeptimer

With the aid of the sleeptimer you can set the time when the TV should switch itself off.

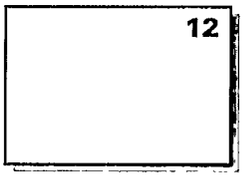


- Press the corresponding colour key for SLEEPTIMER.
- Hold the key MENU + pressed down.
- ▷ The counter runs from **off** up to **90** minutes.
- Hold the key MENU - pressed down.
- ▷ The counter runs from **90** down to **off.**

If you have set a time, then one minute before the TV switches off the remaining minute automatically appears on the screen.
You can always switch off your set earlier.
Up to the last minute you can always change the time set.

Display programme number

If the display programme number is on, the programme number remains in the upper right hand corner of the screen.



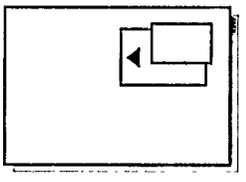
- Press the corresponding colour key for DISPLAY PROG. No.
- Press MENU - or + to switch the programme number off or on.

Demonstration

This function demonstrates one after another all the possible options of your TV.

- Press the corresponding colour key for DEMONSTRATION.
- Press the standby key ⏻ at the top of the remote control in order to stop the demonstration.

Pip size



- Press the corresponding colour key for PIP SIZE.
- Press MENU - or +.

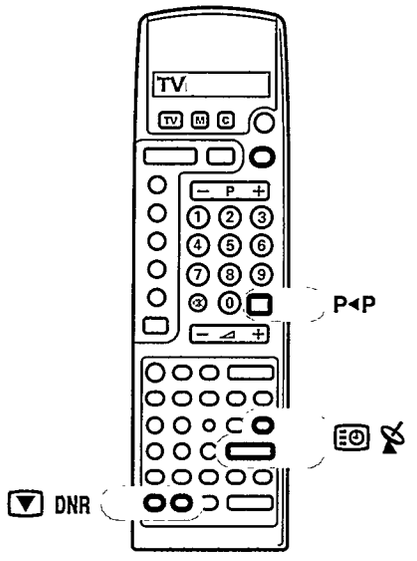
For more information about Pip, see Pip, Picture in Picture, p.18.

Programme List

- Press MENU.
- Press the corresponding colour key for PROGRAMME LIST.
- ▷ A list with an overview of the stored TV channels appear.
- Press MENU.
- ▷ The MAIN MENU appears again.

- Press **off**.
- ▷ The MAIN MENU disappears.

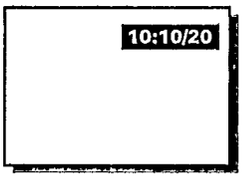
Other functions



Previous programme

- Press the P◂P key.
- The previous selected TV channel is displayed again.
  The -/-- indication has a video recorder function.

Time



The time can only be called up if the TV channel you are watching is also broadcasting teletext. Teletext does not need to be switched on.

- Open the door of the remote control.
- Press EO.
- The time appears in the upper right hand corner of the screen.
- Press EO again in order to switch off.

Selecting satellites

The keys - and + are only functional when having connected a satellite tuner in combination with a satellite positioner and an automatically rotatable polarmount antenna to select satellites.

Freezing the picture

When watching you can freeze the picture at any moment.

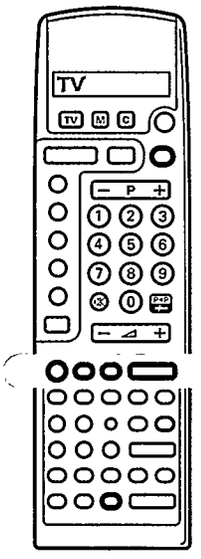
- Press ▼.
- Press ▼ again to return to normal picture.

DNR

With DNR, Dynamic Noise Reduction, you can reduce the noise when receiving a weak signal and so improve the picture quality.

- Press the DNR key repeatedly to select DNR MIN, DNR MAX or DNR OFF.
- Your selection appears for a moment on top of the screen.
  DNR MIN offers you an optimum picture quality, and it is the most ideal setting for signals of normal strength.
  DNR MAX is **not** necessary when the picture quality **is** good.

The setting is stored in the memory only for the selected TV channel after you have switched to another TV channel.



This key has no function.

PP ⊡ I-II ☼

This key has no function.

PP key

With the green **PP**-key you can call up again the picture and sound adjustments which have been stored with the **PP store** key on the control panel on the TV.

- Open the door of the remote control.
- Press **PP**.

Information on screen

After the selection of a TV channel the following information appears briefly on your screen :

. the programme number and name of the selected TV channel
. DIGITAL SOUND AVAILABLE if the TV station transmits digital sound
. DIGITAL SOUND if it is selected and received
. the actually selected sound mode if the TV-channel transmits stereo or digital sound
. the name of the pip connection if pip is switched on.
See Pip-Picture in Picture, p. 18.

PR1 BBC1

DIGITAL SOUND

- Open the door of the remote control.
- Press ⊡.
- ▷ The channel information remains on the screen.
- ▷ If the sleeptimer is on, then the remaining time becomes visible.
- Press ⊡ again.
- ▷ The information disappears.

Bilingual Broadcast

If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, then lamp I or II on the front of your TV lights up.

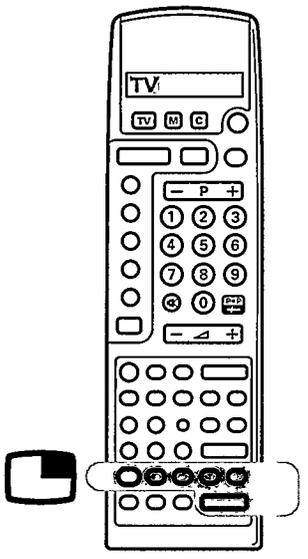
I-II

- Open the door of the remote control.
- Press key I-II and select language I or II.

Brightness

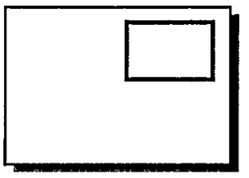
- Open the door of the remote control.
- Press ☼ - or + in order to adjust the brightness.

Pip - Picture in Picture



With pip, picture in picture, you can call up a little screen within the main TV screen. Thus at the same time you can watch two different programmes.
The picture in the small screen has no sound.

Switching pip on and off

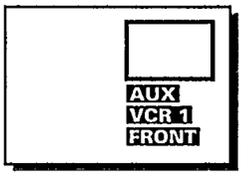


- Open the door of the remote control.
- Press ⧉.
- ▷ The pip screen appears.
- ▷ The name of the pip programme appears briefly on the main screen.
- Press ⧉ again to switch pip off.

Selecting pip programmes

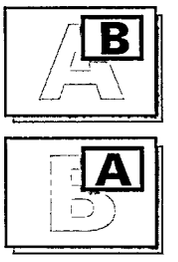
- Press - **P** + of the pip keys in order to change the TV channels in the pip screen.

Selecting pip connections



- Press ⧉ repeatedly.
- ▷ The name of the connections appears or the name and the programme of the last selected TV channel.
  If any other electronic unit is connected with a eurocable and switched on, then its programmes appear in the pip screen.
  Use - **P** + of the pip keys in order to change the TV channel in the pip screen.
  For connecting equipment to **AUX, VCR, FRONT**, see Peripheral Equipment, p. 23.

Switching screens



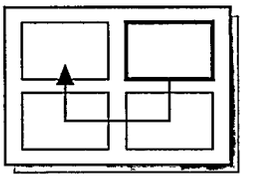
- Press .
- The main screen and the pip screen exchange places.
  If the TV channel is only in the pip screen and not in the main screen, then use - P + of the pip keys in order to change your TV channel in the pip screen.

Still Picture

- Press .
- The picture in the pip screen stands still.
  Even when pip is not switched on, the main screen will appear as a still picture in the pip screen.
- Press again or select another channel in the pip screen in order to cancel the still picture.

GB

Moving the Pip screen

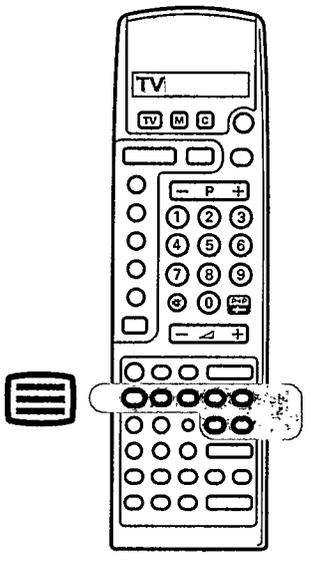


- Press .
- Each time you press this key, the pip screen moves to another corner of the main screen.

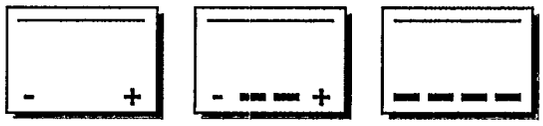
Pip Size

You can select either conventional or zoomed in picture format.
See Main Menu : Special Features, p.14.

Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the index (usually page 100). TV programmes are sometimes subtitled for the hard of hearing. Depending on the TV channel, teletext is transmitted in different systems : WST, TOP, FLOF.
The system utilised is indicated in the options line at the bottom of the screen.



WST TOP FLOF

Switching Teletext On and Off

- Select the TV channel for the desired teletext broadcast.
  Teletext cannot be switched on when there is a menu on the screen.
- Open the door of the remote control.
- Press ▤ in order to switch on the teletext.
- ▷ The side doors behind the screen open if they were closed.
- ▷ The contents appear on the screen together with an information line at the top and an options line at the bottom.

  In the information line appears :
  . the number of the page transmitted or requested
  . the page counter
  . name of the TV channel
  . date and time
  . only P100 if there is no teletext broadcast.

- Press ▤ again in order to switch off the teletext.
- ▷ The TV channel reappears.

Selecting a Teletext Page

With a direct page selection.....or With the options line.....

- Enter the desired page number with the digit keys.
- ▷ The page counter seeks the page.
- ▷ If the counter keeps searching, then the page is not available.

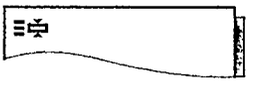
  Does **P ?..** *appear or have you entered an incorrect number ?*
  First complete the number with random figures and then again enter the correct page number.

Selecting the table of contents
- Press the white colour key e.
- ▷ The table of contents will appear.

- Select the desired subject within the corresponding colour key.
- ▷ The selected subject consists of a page and a new options line.
- With the red key a or the blue key d select either the previous or the following page, indicated in the options line with a red - and a blue +.

Special teletext functions

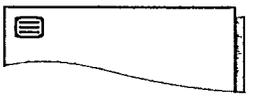
Hold
A selected page number sometimes contains automatically rotated subpages.
The total number of subpages and the subpage displayed are indicated on the screen. For example : 1/4.



- o Press ⇳ in order to hold a subpage.
- ▷ ⇳ appears in the information line.
  The information in this subpage is not being updated by the teletext editorial office.
- o Press ⇳ again.
- ▷ The subpages rotate again.

Reveal
Some pages contain concealed information, such as solutions to riddles and puzzles.
- o Press ? to call up concealed information.
- o Press ? again in order to switch off the concealed information.

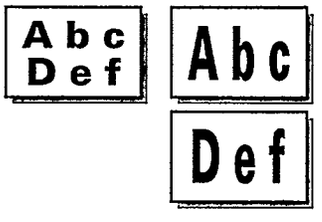
Interrupt
- o Press ✕.
- ▷ The TV channel appears.
- ▷ ☰ indicates that you are still in the teletext mode.
  Before interrupting teletext, you can select a page number.
  When the page has been found, the information line appears briefly on your screen.



- o Press ✕ again.
- ▷ Teletext reappears.

Mix
- o Press ◪.
- ▷ The teletext page is superimposed over the programme on the screen.
- o Press ◪ again.
- ▷ Only the teletext page is displayed.

Enlarge
- o Press ⇕ to enlarge the top half of the teletext page.
- o Press ⇕ again to enlarge the bottom half of the teletext page.
- o Press once more to return to normal page size.



Subpage
By adding a subcode you can call up a subpage and hold it.
- o Enter the page number.
- o Press ⊡.
- o Enter the subpage with 4 digits : e.g. 0003 for the third page of seven subpages.
- o Press ✕.
- ▷ The TV channel appears.
  The information line appears as soon as the subpage has been found.
- o Press ✕ again.
- o Press ⊡ in order to cancel the subcode.

Subtitles and newsflashes
- o Select the contents page (usually page 100).
- o Select the page number for subtitles or newsflashes.
- ▷ Subtitles of newsflashes, if there are, appear at the bottom of the TV.

GB

Teletext preference list

Storing personal preference pages
You can store 20 preference pages in the teletext page memory.
- o Select your TV channel.
- o Press ▤.
- o Press **Install** on the control panel on the TV.
- ▷ TELETEXT PAGE MEMORY appears.
- ▷ A white bar, the cursor, appears on the first line of the list.
- o Hold the green key b pressed down until the white bar appears on the first free line of the list.
- ▷ The programme number of the selected TV channel appears.
- o Enter the page numbers that you want to store.
- o Press the white key e in order to store the pages.
- ▷ The last displayed teletext page appears again.

Storing teletext pages from other TV channels.
- o Press ▤ to switch off teletext and start again.

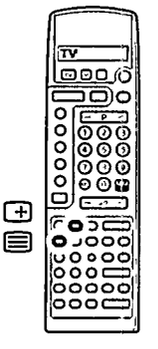
Use the remaining colour keys for the following functions :

Moving the white bar upwards.
- o Press the red key a.

Adding a preference page between two pages that have already been stored.
- o Place the white bar on the line where you want to enter a preference page.
- o Press the yellow key c.
- ▷ The preference pages already stored move down one line.
- o Enter the page number.

Removing a preference page.
- o Place the white bar on the line that you want to remove.
- o Press the blue key d.

Calling up the preference list
- o Select your TV channel.
- o Press ▤.
- ▷ Teletext is on.
- o Press ⊞.
- ▷ TELETEXT PAGE MEMORY is displayed.



Calling up the preference pages
- o Select your TV channel.
- o Press ▤.
- ▷ Teletext is on.
- o Press MENU.
- ▷ The first preference page of the selected TV channel is displayed.

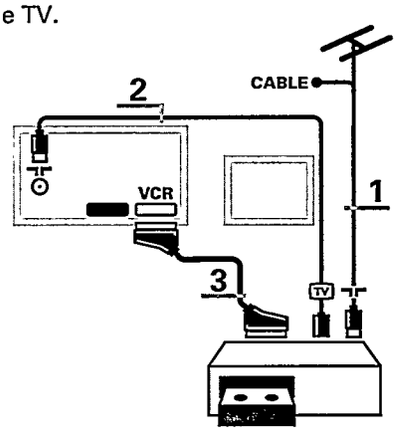
In the option line below appears :
. in red : the previous retrievable page
. in white : the page on screen
. in blue : the following retrievable page
- o Press the red key a or the blue key d.
- ▷ The previous or the following page, respectively, will be displayed.
- o Press the white key e in order to call up again the first preference teletext page of the selected TV channel.
- o Press **off**.
- ▷ The preference teletext pages are switched off.

Peripheral Equipment

There is a wide range of electronic equipment that can be connected to your TV.
The following connection diagrams show you where the different equipment should be connected at the back or the front of the TV.

TV and video recorder

- Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect a eurocable **3** additionally.



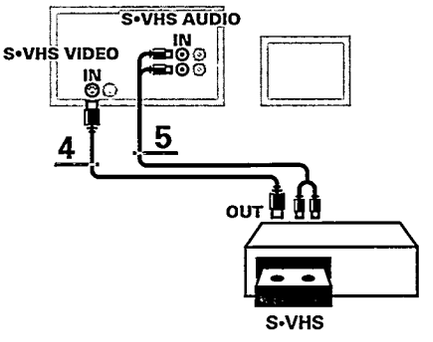
S-VHS video recorder

- Do you have a S-VHS video recorder with S-VHS cinch connectors, then connect as well as the aerial cables **1** and **2**

  the S-VHS cables **4** and **5**

  and the S-VHS cables **6** and **7**.

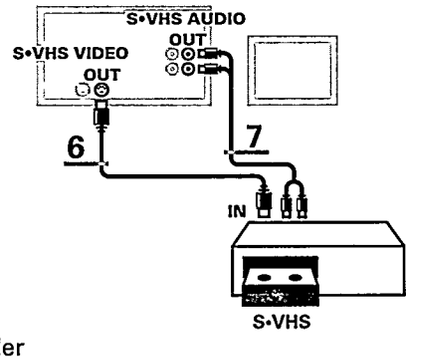
  Do not connect an additional eurocable.



OR

- Do you have a S-VHS video recorder with a S-VHS euroconnector, then connect as well as the aerial cables **1** and **2**, the S-VHS eurocable **3**.

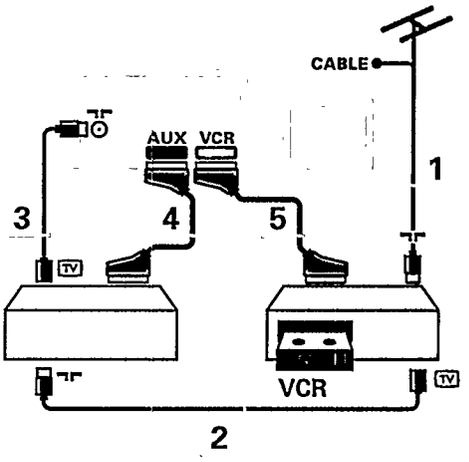
  Never connect to the same TV one video recorder with S-VHS cables at the same time as one video recorder with a euroconnector.
  The euroconnector has no function.



Searching for and storing the testsignal of the video recorder

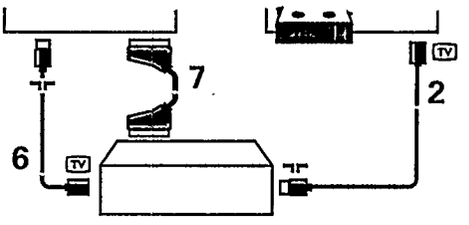
- Unplug the aerial cable of the aerial socket ⌐|⌐ of your video recorder.
- Switch on your TV and video recorder.
- Open the control panel cover on the front of your TV.
- Press **Install.**
- ▷ The SYSTEM INSTALLATION menu appears.
- Search for the testsignal of your video recorder in the same way as you searched for and stored the TV channels. See Installation, Searching for and storing TV channels.
  Store the testsignal either under programme number 0 or between 50 and 59.
- Insert the aerial plug again into the aerial socket ⌐|⌐ of your video recorder after you stored the testsignal.

TV, video recorder 1 and one or more peripherals



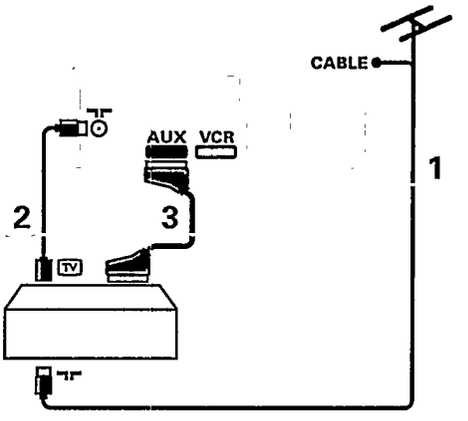
- Connect the aerial cables **1**, **2** and **3** as shown alongside. A better picture quality is obtained if you connect the eurocables **4** and **5** additionally.
- Look for the test signal of your peripheral in the same way as you do for a video recorder.

When having more than one peripheral, connect them to each other with an extra aerial cable **6** and an additional eurocable **7** to obtain a better picture quality.



Only with a video recorder connected to VCR it is possible to record a programme from your TV as well as from other connected equipment.
See Recording with your video recorder, p. 29.

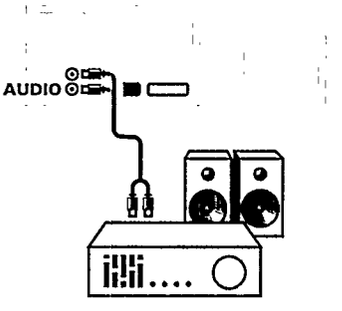
TV and laser disc or satellite tuner or Photo CD/CDI equipment



- Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect the eurocable **3** additionally.
See also Installation, Photo CD/CDI, p. 9,
if you connect a Photo CD/CDI equipment.

Look for the test signal of your equipment in the same way as you do for a video recorder.

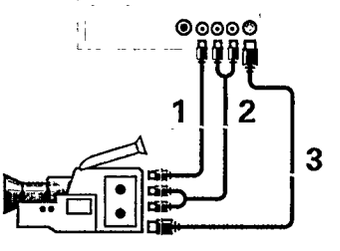
Audio equipment



You can listen to your TV sound via your audio equipment.
- Therefor connect the audio cables to the audio input of your equipment and to AUDIO L and R of your TV.
- Press 🔇 on the remote control.

▷ The loudspeakers of your TV are switched off.

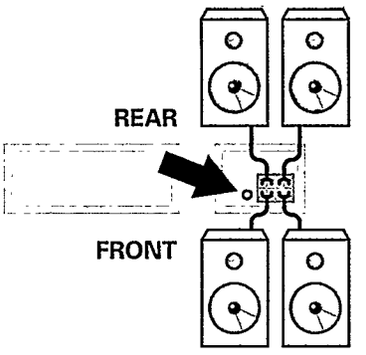
Camera and camcorder



- Connect your camera or camcorder to FRONT at the front of your TV.
- Connect the equipment to **Video 1** and **Audio L 2** for mono equipment.
- In the SOUND menu select mono sound. See Main Menu, Adjusting the sound, Sound mode, p. 13.
- Connect **Audio R 2** for stereo equipment.
- In the SOUND menu select stereo sound.

S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the S-VHS input **3** and **Audio** inputs **2**.

Extra loudspeakers



To achieve a better sound effect you can connect 2 or 4 extra loudspeakers, min. 8 Ohm.
See also Spatial and Surround sound, p. 12.

- Hold the connector clip pressed in and insert the ends of the wires into the openings. On the back of the TV it is indicated where you connect the FRONT and REAR loudspeakers.

In case of 2 extra loudspeakers :

- Connect them to FRONT. ..... **or**
- Press the loudspeaker switch on the back of he TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- ▷ You achieve a better front sound effect.

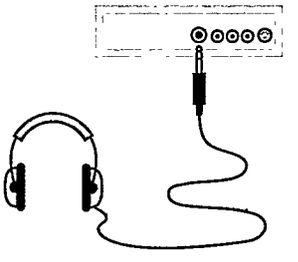
- Connect them to REAR.
- ▷ You achieve a surround sound effect.

A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to REAR and a 12 m wire can be purchased from you dealer.
Do never connect the loudspeakers from these kit to FRONT.

In case of 4 extra loudspeakers :

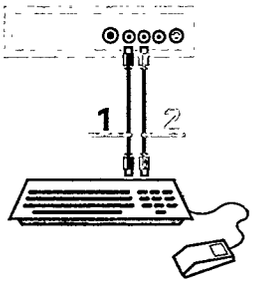
- Connect them to FRONT and REAR.
- Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.

Headphone



- Insert the plug into the headphone socket 🎧 at the front of the TV.
- Adjust the volume with ◿ - or +.
- Press 🔇 on the remote control.
- ▷ The internal loudspeakers of your TV are switched off.
  The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

Computer



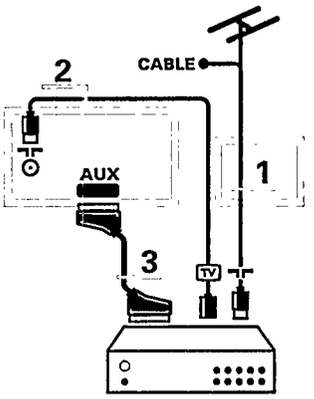
- Connect your computer to FRONT at the front of your TV.
- Connect the computer to **Video 1**.
- If your computer has sound then you can connect it to the **Audio L 2** input.

Decoders

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.
For further information, ask your dealer. See also the booklet supplied with your decoder.

Connecting the decoder with an aerial socket to the TV

- Connect the aerial cables **1** and **2** as shown alongside.
  When your decoder has a euroconnector you obtain a better picture quality if you connect a eurocable **3** additionally.



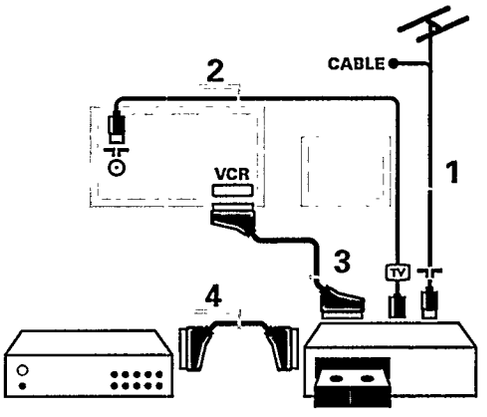
Connecting a decoder without an aerial socket to the TV

- Connect the decoder with your TV with a eurocable **3** only.

Connecting the decoder to the video recorder

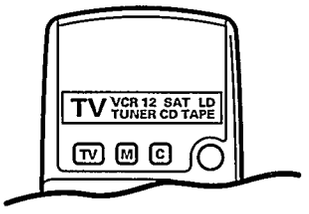
Some video recorders have a special euroconnector for decoder.

- Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder.
  See also the handbook of your video recorder.
- To connect your video recorder to the TV, see before.



If you want to connect more equipment to your TV, consult your dealer.

Reproducing Picture and Sound



Most of the audio and video equipment from our range of products can be operated with the remote control.

a. from equipment connected only with an **aerial cable**

- o Switch your TV on.
- o With the digit keys select the programme number under which you have stored the test signal.
- o Switch on the equipment with the remote control.
- ▷ The picture and/or sound is reproduced.

Do you want to watch TV again ?

- o Enter the programme number of the TV channel which you want to watch with the digit keys.

b. from equipment connected with an **eurocable**

- o Switch your TV on.
- o Switch your equipment on.
- ▷ Either the picture and/or the sound is reproduced or descrambled.

If this is not the case :

- o Press **M** on the remote control repeatedly until the designation **VCR1, VCR2, SAT, LD, TUNER, CD** or **TAPE** appears in a grey block.
- o Press **C.**
- ▷ Either the picture and/or the sound is reproduced.

Do you want to watch TV again ?

- o Press the **TV** key under the display of the remote control.
- o Press **C.**
- ▷ Either the picture and/or the sound from the TV channels is reproduced.

C. from a S-VHS recorder connected with **S-VHS cables**

- Switch your TV on.
- Press repeatedly on the **M** key of the remote control until **VCR1** appears in a grey block.
- Press **C.**
- Switch your S-VHS recorder on.
- ▷ The picture stored in your video recorder from a pre-recorded cassette or from a TV channel is reproduced.

d. from equipment connected to the **front** of the TV

- Switch your TV on.
- Hold the key **P** - or + pressed in until the indication FRONT appears on the screen.
- Switch your equipment on.
- ▷ The picture is reproduced.
  Do you want to watch the TV picture again ?
- Enter the programme number of the TV channel which you want to watch with the digit keys.

Recording with your video recorder

1. Recording a TV programme

only using an **aerial cable**

- Select the programme number on your video recorder.
- Press record ● under the door of the remote control or on your video recorder.

using a **eurocable** connected to the euroconnector VCR

- Select the programme number on the TV.
- Press MENU.
- Press the yellow key c.
- ▷ RECORDING SOURCE appears.
- Press the red key a.
- ▷ TV TO VCR is displayed.
- Set your video recorder to record. (See the handbook for your video recorder.)
- Press record ● under the door on the remote control or on your video recorder.

using a **eurocable** connected to the euroconnector AUX

- Select the programme number on the TV.
- Set your video recorder to record. (See the handbook for your video recorder.)
- Press record ● under the door on the remote control or on your video recorder.

GB

2. Recording a programme from connected peripheral equipment

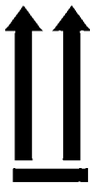
- Switch on the equipment.
- Press MENU.
- Press the yellow key c.
- ▷ RECORDING SOURCE appears.
- With the colour keys select the connection from which you want to record.
- ▷ Your selection lights up.
- Set your video recorder to record. (See the handbook for your video recorder.)
- Press record ● under the door on the remote control or on your video recorder.

RECORDING SOURCE
a ▬ TV to VCR b ▬ AUX to VCR c ▬ FRONT to VCR
select: a-c menu off

Tips

Care of the screen
Only a soft, dry brush should be used if the screen requires cleaning.
Do not use any liquid. Avoid hard objects touching the screen, as they may cause permanent damage.
Every 20 minutes you will notice a horizontal shift of the picture. This will prolong the life of your screen.

Transportation
If necessary, the set should always be transported in a upright position.
(See sticker at the back of the set.)



Poor Picture
Have you selected the correct TV system ?
Is your TV set or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc. ?
Mountains or high buildings can cause double pictures or ghost images.
Sometimes you can improve the picture quality by changing the direction of the outside aerial.
Is the picture unrecognisable ? Check if you have entered the correct frequency or adjust the frequency by fine tuning.
See Installation, p. 7.
Are brightness and contrast out of adjustment ? Press the **PP** key.
Switch off your TV overnight with ⏻ on the front of the TV.

No picture
Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket ?
Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible secondly installed TV in good condition ? If in doubt, consult your dealer.
NO PICTURE means that the selected peripheral equipment is transmitting no picture.
Did you press the correct keys on the remote control ? Try it once more.
Did you press ▤ again after switching on teletext ?
Has the child lock been switched off ? See Special Features, p. 14.

Sound
Did you perhaps interrupt the sound with the 🔇 key ?
Were the internal loudspeakers perhaps switched off by the switch on the back of your TV set ? See Extra loudspeakers, p. 25.
Is the sound coming out of only one loudspeaker ? Was the balance perhaps set to one extreme ? See SOUND menu, p. 12.
Select SPATIAL ON in the Sound menu if there is no sound coming out of the extra loudspeakers in back. See Spatial and Surround Sound, p. 12.

Remote control
Does your TV no longer respond to the remote control ? Check whether the designation **TV** appears in a grey block.
Have you pressed the key **C** ?
Perhaps the batteries are empty.
See Preparation, p. 3.

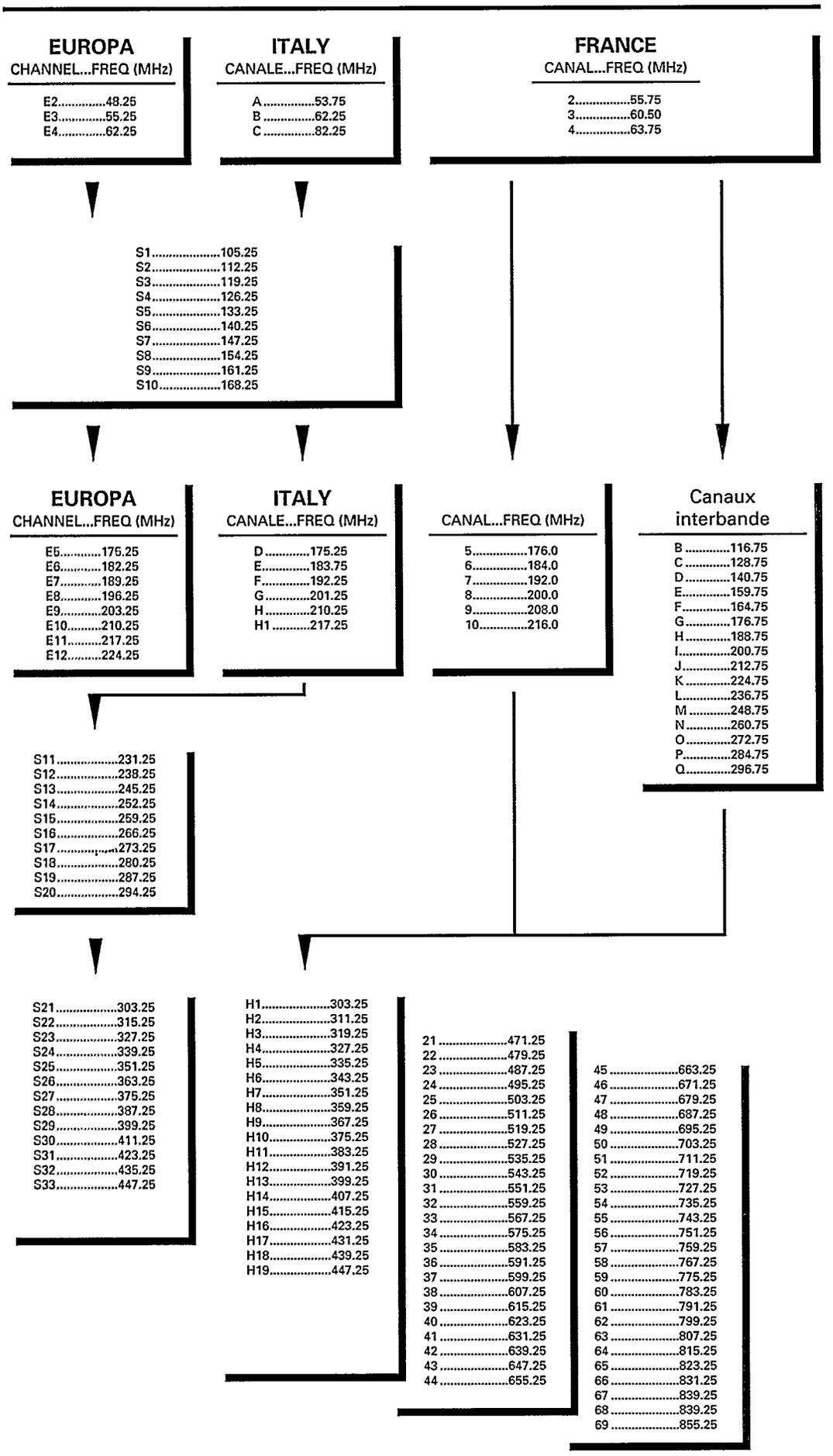
Menu
Did you select the wrong menu ?
Once more press MENU or **off** to exit from the menu.

Connections
Check whether your peripheral equipment is in fact properly connected. See p. 23.
Have you switched on the peripheral equipment ?

No solution ?
Switch your TV set off and then on again.
Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician when nothing helps or when
different lamps in front start blinking without having pressed any key on the remote control.

Table of TV frequencies.
Frequenztabelle der Fernsehsender.
Liste des fréquences des émetteurs.
Frequentietabel TV-zenders.
Tabella delle frequenze delle trasmittenti.
Lista de frequências.

Tabla de frecuencias de transmisión de televisión.
Frekvens oversigt.
Frekvenstabell.
Tabell över TV-frekvenser.
TV-taajukksien taulukko.



GB
The frequencies used by a cable company may differ from the frequencies on the table. Consult your cable company or your dealer for detailed information.

D
In Kabelfernsehanlagen können Abweichungen von den in den Frequenztabellen aufgeführten Frequenzen vorkommen. Bitte wenden Sie sich an Ihren Fachhändler oder Ihre Kabelfernsehgesellschaft, die Ihnen die zutreffenden Frequenzen mitteilt.

F
Les fréquences utilisées par une société de télédistribution peuvent être différentes de celles sur la liste des fréquences. Consultez votre société de télédistribution ou votre revendeur pour des informations plus détailées.

NL
De frequenties die gebruikt worden door een kabelmaatschappij kunnen verschillen van deze op de tabel. Raadpleeg uw kabelexploitant of uw handelaar voor meer informatie.

I
Le frequenze usate da una societa' di teledistribuzione possono essere differenti da quelle sulla tabella. Consultate la societa' di teledistribuzione o il vostre rivenditore per informazioni specifiche.

E
Las frecuencias utilizadas por las empresas de distribución de señal por cable, pueden ser diferentes de las que se encuentran en esta tabla. Consulte con su compañia de distribución de televisión por cable o con su distribuidor para que le proporcionen una información más detallada.

P
As frequências utilizadas por uma sociedade de teledistribuição podem ser diferentes das indicadas na lista de frequências. Consultar a sociedade de teledistribuição ou o vendedor para informações mais detalhadas.

DK
Frekvenser benyttet af kabel operatører kan være afvigende fra disse, kantakt deres kabel operatør eller forhandler for nærmere information.

N
Frekvensene som benyttes pa et kabelnett kan avvike fra de som er oppført i tabellen. Kontakt ditt kabel-TV selskap eller din forhandler for nærmere opplysninger.

S
Frekvenserna som används i kabel-TV-näten kan avvika fran frekvenserna i tabellen. Kontakta ditt kabel-TV-bolag eller din radiohandlare för vidare information.

SF
Kaapeliyhtiöden käyttämät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhtiösta tai myyjältä.

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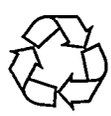

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